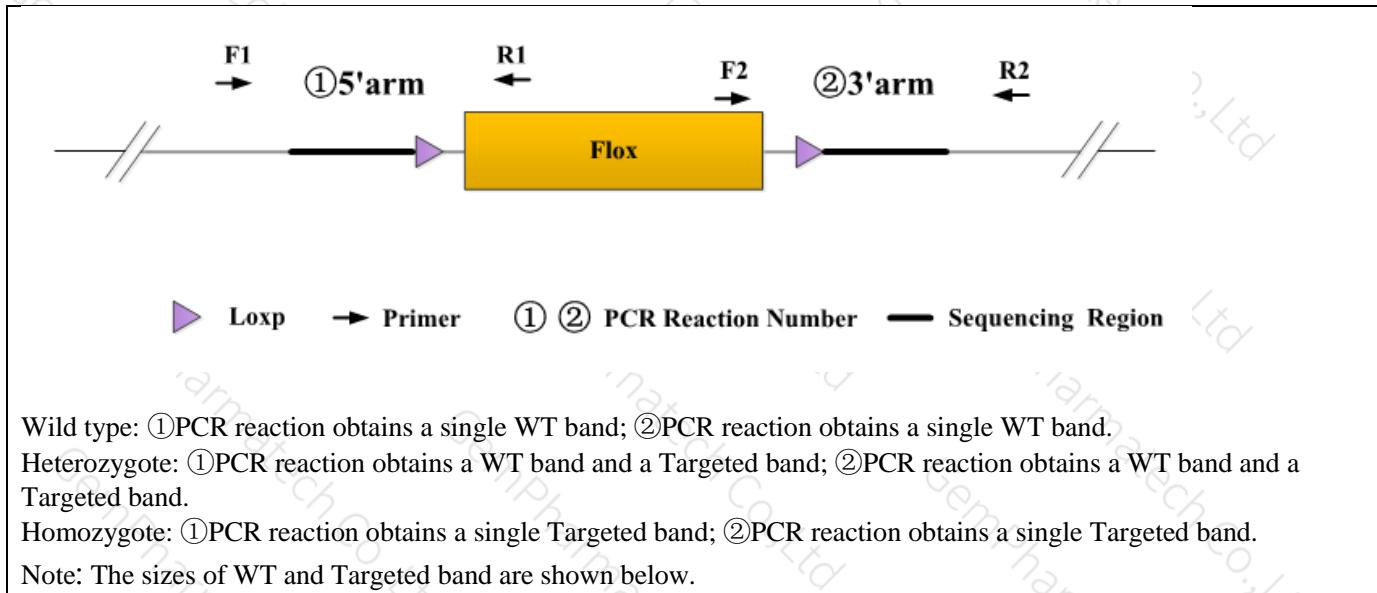




Genotyping Report

Strain ID	T016289	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tiantian Sun	Gene Name			<i>Maf</i>

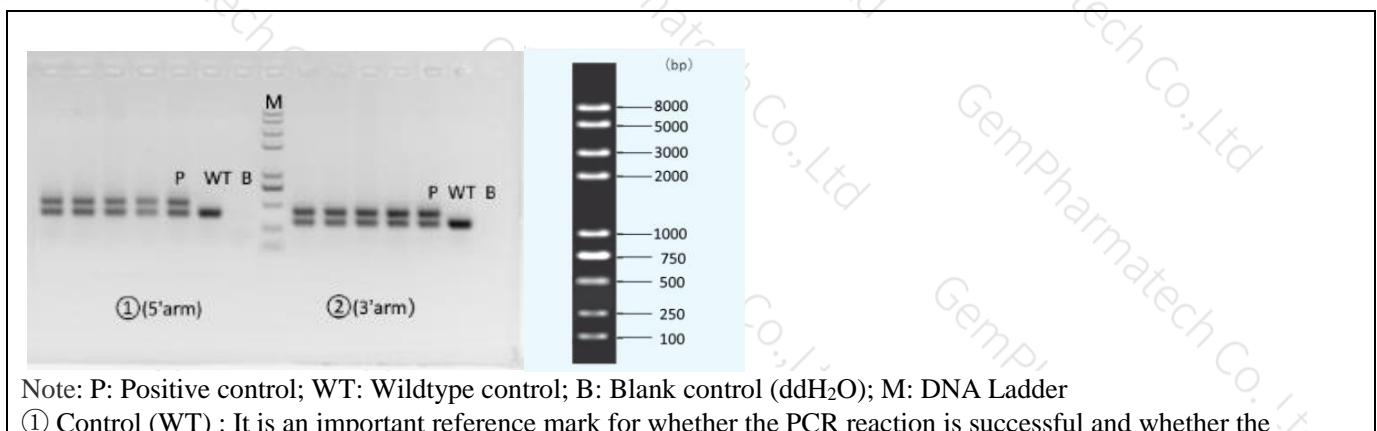
1. Strategy of Genotyping



2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
①(5'arm)	T016289(P1)-F1	CTCCATTTCTGGCCCAAAAC	WT: 371bp Targeted: 476bp
	T016289(P1)-R1	CCAGATTGGGAAGAAAGAGTGA	
②(3'arm)	T016289(P1)-F2	CCCTTACCTTACCAGAGTCCTG	WT: 275bp Targeted: 381bp
	T016289(P1)-R2	GTTTCCCTCAATCAGAGCAGGG	

3. Gel Image & Conclusion





product band position and size meet the theoretical requirements.

② Control (B) : PCR amplification was performed without template in the PCR reagent to monitor whether the reagent was contaminated.

4. PCR Condition

PCR Reaction Component			
Seg.	reaction component	Volume (μl)	
1	2 × Rapid Taq Master Mix (Vazyme P222)	12.5	
2	ddH ₂ O	9.5	
3	Primer A(10pmol/μl)	1	
4	Primer B(10pmol/μl)	1	
5	Template(≈100ng/μl)	1	
PCR program ① priority selection			
Seg.	Temp.	Time	Cycle
1	95°C	5min	
2	98°C	30s	
3	65°C * (-0.5°C/cycle)	30s	
4	72°C	45s*	
5	98°C	30s	
6	55°C *	30s	
7	72°C	45s*	
8	72°C	5min	
9	10°C	hold	
PCR program ② the second choice			
Seg.	Temp.	Time	Cycle
1	95°C	5min	
2	98°C	30s	
3	58°C *	30s	
4	72°C	45s*	
5	72°C	5min	
6	10°C	hold	

Note*: Annealing temperature and extension time can be determined according to the actual amplification situation and amplification enzyme efficiency.